

Product datasheet for **SC114550**

PTPN22 (NM_015967) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN22 (NM_015967) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN22
Synonyms:	LYP; LYP1; LYP2; PEP; PTPN8; PTPN22.5; PTPN22.6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015967, the custom clone sequence may differ by one or more nucleotides

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ATGGACCAAGAGAAATTCTGCAGAAGTTCCTGGATGAGGCCAAAGCAAGAAAATTACTAAAGAGGAGT
TTGCCAATGAATTTCTGAAGCTGAAAAGGCAATCTACCAAGTACAAGGCAGACAAAACCTATCCTACAAC
TGTGGCTGAGAAGCCCAAGAATATCAAGAAAAACAGATATAAGGATATTTTGGCCATGATTATAGCCGG
GTAGAACTATCCCTGATAACCTCTGATGAGGATTCCAGCTACATCAATGCCAACTTCATTAAAGGGATTT
ATGGACCAAGGCTTATATTGCCACCCAGGTCCTTTATCTACAACCCTCCTGGACTTCTGGAGGATGAT
TTGGGAATATAGTGTCTTATCATTGTTATGGCATGCATGGAGTATGAAATGGGAAAAGAAAAGTGTGAG
CGCTACTGGGCTGAGCCAGGAGAGATGCAGCTGGAATTTGGCCCTTTCTCTGTATCCTGTGAAGCTGAAA
AAAGGAAATCTGATTATATAATCAGGACTCTAAAAGTTAAGTTCAATAGTAAACTCGAATCTACCA
GTTTCATTACAAGAATTGGCCAGACCATGATGTACCTTCATCTATAGACCCTATTCTTGAGCTCATCTGG
GATGTACGTTGTTACCAAGAGGATGACAGTGTCCCATATGCATTCACTGCAGTGTGGCTGTGGAAGGA
CTGGTGTATTTGTGCTATTGATTATACATGGATGTTGCTAAAAGATGGGATAATTCCTGAGAATTCAG
TGTTTTCAGTTTGATCCGGGAAATGCGGACACAGAGGCCCTTCATTAGTTCAAACGCAGGAACAATATGAA
CTGGTCTACAATGCTGTATTAGAACTATTTAAGAGACAGATGGATGTTATCAGAGATAAACATTCTGGAA
CAGAGAGTCAAGCAAAGCATTGTATTCTGAGAAAAATCACACTCTCAAAGCAGACTCTTATTCTCCTAA
TTTACCAAAAAGTACCACAAAAGCAGCAAAAATGATGAACCAACAAGGACAAAAATGGAATCAAAGAA
TCTTCTTCTTTGACTTTAGGACTTCTGAAATAAGTGCAAAAGAAGAGCTAGTTTTGCACCCTGCTAAAT
CAAGCACTTCTTTGACTTTCTGGAGCTAAATTACAGTTTTGACAAAAATGCTGACACAACCATGAAATG
GCAGACAAAGGCATTTCCAATAGTTGGGGAGCCTCTTCCAGAACATCAAAGTTTGGATTTGGGCTCTCTT
TTGTTTGAGGGATGTTCTAATTTAACTGTAATGCAGCAGGAAGATATTTAATTCAAAGTGCCAA
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AAACTTTTCTTATTTGGAATCTCAACCACATGATTCTTGTGTTTGTAGAGATGCAGGCTCAAAAAGTAATG
CATGTTTCTTCAGCAGAACTGAATTATTCAGTCCATATGACTCTAAACACCAAATACGTAATGCCTCTA
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TTCATCATGGCCTCCAAGTGGTACCAGTCTAAGATGTCTCTTGATTTACCTGAGAAGCAAGATGGAAC
GTTTTTCTTCTCTCTGTTGCCAACATCCTCTACATCCCTCTTCTTATTACAATTACATGATTCTT
TATCACTGAATTCCTCAACCAATATTTCTCACTATTGAACCAGGAGTCACTGTACTAGCAACTGCTCC
AAGGATAGATGATGAAATCCCCCTCCACTTCTGTACGGACACCTGAATCATTTATTGTGTTGAGGAA
GCTGGAGAATTCTACCAAAATGTTCCCAAATCCTTATCCTCAGCTGTGAAGGTAAAAATTGGAACATCAC
TGAATGGGGTGAACATCTGAACCAAAGAAATTTGATGACTCTGTGATACTTAGACCAAGCAAGAGTGT
AAAACCTCCGAAGTCTAAATCAGAACTACATCAAGATCGTTCTTCTCCCCACCTCCTCTCCAGAAAGA
ACTCTAGAGTCTTCTTTCTTGCCGATGAAGATTGTATGCAGGCCAATCTATAGAAACATATTCTACTA
GCTATCCTGACACCATGGAAAATTAACATCTTCAAAACAGACTGAAGACTCTGGAAAAAGTTTAC
AAGGAGTAAGAGTTTAAAAATTTGCGAAACATGAAAAAGAGTATCTGTAATTTGCCCCACCAACAAG
CCTGCAGAATCTGTTCAAGTCAAATAACTCCAGCTCATTCTGAATTTGGTTTTGCAAACCGTTTTTCAA
AACCAAGGACCAAGGAATCCACCACCAACTTGAATATTTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015967 unedited
 CCGAAAACCCAATTTCGCACCAGCGGCAGCAGTGGCTTTTTGGAGGTGTCTCGGCCATGAC
 ACACATTTGACATGCCCTCCCTCAACCTACTTATAGACTATTTTTCTTGCTCTGCAGCAT
 GGACCAAAGAGAAAATTCTGCAGAAGTTCCTGGATGAGGCCCAAAGCAAGAAAATTAATA
 AGATTTGTTTGCCAATGAATTTCTGAAGCTGAAAAGGCAATCTACCAAGTACAAGGCAGA
 CAAAACCTATCCTACAACCTGTGGCTGAGAAGCCCAAGAATATCAAGAAAAACAGATATA
 GGATATTTTGCCCTATGATTATAGCCGGGTAGAACTATCCCTGATAACCTCTGATGAGGA
 TTCCAGCTACATCAATGCCAACTTCATTAAGGGAGTTTATGGACCAAGGCTTATATTGC
 CACCCAGGGTCCTTTATCTACAACCCTCCTGGACTTCTGGAGGATGATTTGGGAATATAG
 TGTCTTATCATTGTTATGGCATGCATGGAGTATGAAATGGGAAAGAAAAAGTGTGAGCG
 CTAAGGCTGAGCCAGGAGAGATGCAGCTGGAATTTGGCCCTTCTCTGTATCCTGTGA
 AGCTGAAAAAGGAAATCTGATTATATAATCAGGACTCTAAAAGTTAAGTTCAATAGTGA
 AACTCGAATATCTACCAGTTTCATTACAAGAATTGGCCAGACCATGATGTACCTTCATC
 TATAGACCCTATCTTGAGCTCATCTGGGATGTACGTTGTTACCAAGAGGATGACAGTGT
 TCCCATATGCATTCACTGCAGTGTGGCTGTGGAAGGACTGGGTGTAATTGTGCTATTGA
 TATACATGGNNATGTGCTAAAGATGGATAATTCCTGAGAAGTTCAGTGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015967 unedited
 GGGGGAGGGAAACANNAATANTTTANANNNNANNTTTTACTTGNACCCGGCCGCAATCTAN
 GATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACAACCAAAAATTTATTGAGTGTCT
 GTTGGATACATTGTAACAAGAGACAGATAATAATACTTCATTCAATTTGCCCTATTGG
 ACTTCCAATGAAAAACTGAAGAACAATGATGTTTAAACAATACTACATGTTTCTAA
 AAGTTATAAATAAAGTTATTTAAATAAAAAATTTTTTAATGCATTAGGGGAAGTCAGGTG
 GATTCTTTGTAAAAACGATTACCTGCCAATTTATTTACTACATAAAATTAGAGTTGAACT
 AGATTTTCTTATGGCAGATCCATATTCATATAGAAATTCATTTTAAACTAGTATTTCTGA
 TTGGTTAGATAAAAAATTGCACATGATCTGAAAGATCCTGTATAAACATATACAATTTATA
 TCTTTTGTACCAAAAAGATAGCTATTATATTTTCATTGATTACTTTTCTAGAATTGGTAAT
 TTAATGACTTTGGTTAAAACCTTATCAGGATTTTCAGTTGAATTCCTTGTACATTCAAATA
 ATTGTCATTATTTGCACATTTTATTCTAATAAATAAATTTCTCATTTTCTTAATTTCC
 AGTTTTCCACAACATTTGGGAAGATTTACAAGGTATACTCCATTTAGGCCAAAAATAACTG
 TCAGGGAATAGTCATTGCCAAGAGCAGTTTGTATTGCAACCCACAAAGTAAGTTTTTTTT
 TTAACTTTTTATAGTATATTCTGGCAATGTAAAAAATAGTTTGTAGATCCAAATTTACAAA
 CTTTTTGAAGTTTATGTTTTTGTAAAAAGTAAAAAGATATAAAAAACCTGGAAAAATGG
 AAAAAATCCATTCTAAAAGGGTTTCTCTATAACATCCTGTACATAGCCCAAGTGA

Restriction Sites:

NotI-NotI

ACCN:

NM_015967

Insert Size:

3600 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_015967.3 , NP_057051.2
RefSeq Size:	3615 bp
RefSeq ORF:	2424 bp
Locus ID:	26191
UniProt ID:	Q9Y2R2
Cytogenetics:	1p13.2
Domains:	Y_phosphatase, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	<p>This gene encodes of member of the non-receptor class 4 subfamily of the protein-tyrosine phosphatase family. The encoded protein is a lymphoid-specific intracellular phosphatase that associates with the molecular adapter protein CBL and may be involved in regulating CBL function in the T-cell receptor signaling pathway. Mutations in this gene may be associated with a range of autoimmune disorders including Type 1 Diabetes, rheumatoid arthritis, systemic lupus erythematosus and Graves' disease. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Mar 2009]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note:.</p>